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PTO/SB/21 (09-04)

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/780,325	
	Filing Date	Feb 17, 2004	
	First Named Inventor	Quay, Steven C.	
	Art Unit	1614	
	Examiner Name		
Total Number of Pages in This Submission	10	Attorney Docket Number	02-04CIP3

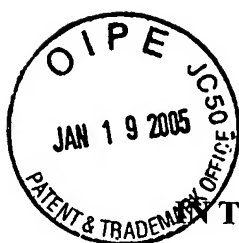
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<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
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<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Information Disclosure Statement for 37 CFR
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input type="checkbox"/> Other Enclosure(s) (please identify below):
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<input checked="" type="checkbox"/> Information Disclosure Statement Form 1449, 7 pages	<input type="checkbox"/> CD, Number of CD(s) _____	
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Nastech Pharmaceutical Company Inc.		
Signature			
Printed name	Paul G. Lunn		
Date	January 13, 2005	Reg. No.	32,743

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I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as priority mail in an priority mail box, addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
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THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Quay *et al.*

U.S. Application Patent Serial No.:
10/780,325

Filed: 2/17/2004

Title: COMPOSITIONS AND METHODS
FOR ENHANCED MUCOSAL
DELIVERY OF Y2 RECEPTOR-
BINDING PEPTIDES AND
METHODS FOR TREATING AND
PREVENTING OBESITY

Assignee: Natestch Pharmaceutical Company
Inc. by assignment recorded on 06/03/2004,
Reel/Frame 014680/0942

Group Art Unit: 1614

Attorney Docket No.: 02-04CIP3

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of international application; or **before mailing date of first office action on the merits**; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:
- ☐ Statement under 37 CFR 1.97(e), or
 - ☐ a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97(d) together with a:
- ☐ Statement under 37 CFR 1.97(e), and
 - ☐ a \$180.00 fee set forth in 37 CFR 1.17(p).
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

X Applicant(s) submit herewith Form PTO 1449-Information Disclosure Citation together with copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

The relevance of the attached references is that this is the closest art of which Applicant is aware. Applicant submits that the above references taken alone or in combination neither anticipate nor render obvious the present invention. Consideration of the foregoing in relation to this application is respectfully requested.

It is requested that the information disclosed herein be made of record in this application.

Respectfully submitted,



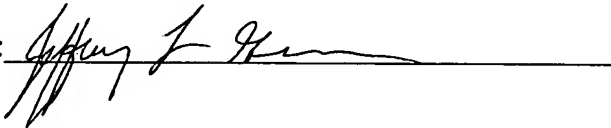
Paul G. Lunn
Attorney/Agent for Applicant(s)
Reg. No. 32743

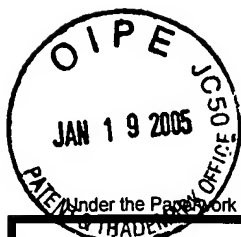
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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10780,325
Filing Date	02/17/2004
First Named Inventor	Quay, Steven C.
Art Unit	1654
Examiner Name	
Attorney Docket Number	02-04CIP3

Sheet 1 of 7

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Issued Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US- 5,308,620	Issued 05-03-1994	Hemosphere, Inc.	
		US- 5,574,010	11-12-1996	The Regents of The University of California	
		US- 5,604,203	Issued 02-18-1997	University of Cincinnati	
		US- 5,616,311	Issued 04-01-1997	Hemosphere, Inc.	
		US- 5,696,093	Issued 12-09-1997	CRC for Biopharmaceutical Research Pty Limited	
		US- 5,716,643	Issued 02-10-1998	Hemosphere, Inc.	
		US- 5,725,804	Issued 03-10-1998	Hemosphere, Inc.	
		US- 5,759,656	Issued 06-02-1998	Novartis Corporation	
		US- 5,945,033	Issued 08-31-1999	Hemosphere, Inc.	
		US- 5,912,227	06-15-1999	North Carolina State University	
		US- 5,968,748	Issued 10-19-1999	Isis Pharmaceuticals, Inc. The Penn State Research Foundation	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		EP 1 288 223 A1	05.03.2003	Biomeasure Incorporated.		
		EP 1 288 224 A1	05.03.2003	Biomeasure Incorporated		
		EP 0 678 018 B1	09.04.2003	Kinerton Limited		
		EP 1 051 194 B1	14.05.2003	Kinerton Limited		
		EP 1 466 610 A1	13.10.2004	Daiichi Santory Pharma Co., Ltd.		

Examiner
Signature

Date
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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Complete if Known		
			Application Number	10/780,325	
			Filing Date	02/17/2004	
			First Named Inventor	Quay, Steven C.	
			Art Unit	1614	
Examiner Name					
Sheet	2	of	7	Attorney Docket Number	02-04CIP3

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Issued Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US- 5,977,175	Issued 11-02-1999	Cedars-Sinai Medical Center	
		US- 5,980,945	Issued 11-09-1999	Societe de Conseils de Recherches et d'Applications Scientifique Recherches S.A. d'Applications Scientifique S.A.	
		US- 6,013,285	Issued 01-11-2000	Hemosphere, Inc.	
		US- 6,013,633	1-11-2000	University of Cincinnati	
		US- 6,017,879	01-25-2000	B.M.R.A. Corporation B.V.	
		US- 6,046,167	Issued 04-04-2000	University of Cincinnati	
		US- 6,191,102	Issued 02-01-2001	Eli Lilly and Company	
		US- 6,264,988	Issued 07-24-2001	Hemosphere, Inc.	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)					
		PCT WO 94/22467 A1 (International Application Number PCT/US94/03380)		10-13-1994	University of Cincinnati		
		PCT WO 98/20885 A1 (International Application Number PCT/US96/18374)		05-22-1998	University of Cincinnati		
		PCT WO 99/02135 A1 (International Application Number PCT/IT98/00192)		01.21.1999.	Sierovacciongeno Italiano I.S.I. S.P.A.		
		PCT/ WO 09915516 A1 (JP)		04-01-1999	Banyu Pharm Co LTD		
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			Application Number	10/780,325	
			Filing Date	02/17/2004	
			First Named Inventor	Quay, Steven C.	
			Art Unit	1614	
Examiner Name					
Sheet	3	of	7	Attorney Docket Number	02-04CIP3

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number	Issued Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number - Kind Code ² (if known)				
		US- 6,391,343	Issued 05-21-2002	Hemosphere, Inc.		
		US- 6,235,718	Issued 05-22-2001	The University of Cincinnati		
		US- 6,558,708	Issued 05-06-2003	Cedars-Sinai Medical Center		
		US- 6,583,111	Issued 06-24-2003	Eli Lilly and Company		
		US- 6,737,408	Issued 05-18-2004	University of Cincinnati		
		US 2004/0228846 A1	Publication 11-18-2004	Ropes & Gray LLP		

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		PCT WO 00/47219 A2 (International Application Number PCT/US00/03391)	08-17-2000	Ontogeny, Inc.		
		PCT WO 02/47712 A2 (International Application Number PCT/US01/48336)	06-20-2002	Amylin Pharmaceuticals, Inc.		
		PCT WO 03/026591 A2 (International Application Number PCT/US02/31944)	04-03-2003	Imperial College Innovations Ltd, Oregon Health and Science University		
		PCT WO 03/057235 A2 (International Application Number PCT/GB03/00062)	07-17-2003	Imperial College Innovations Ltd, Oregon Health and Science University		
		PCT WO 03/105763 A2 (International Application Number PCT/US03/18657)	12.24.2003	Amylin Pharmaceuticals, Inc.		

Examiner Signature					Date Considered	
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete If Known	
		Application Number	10/780,325		
		Filing Date	02/17/2004		
		First Named Inventor	Quay, Steven C.		
		Art Unit	1614		
		Examiner Name			
Sheet	4	of	7	Attorney Docket Number	02-04CIP3

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		MEI-HUEI CHEN; BALASUBRAMANIAN; MURPHY; TABATA; FISCHER; CHEN; JOFFE, Sensitive Radioimmunoassay for Measurement of Circulating Peptide YY, Gastroenterology, 1984, Pages 1332-1338, Volume 87, Publisher: American Gastroenterological Association, Published in: Cincinnati, Ohio	
		MORLEY, JOHN E.; LEVINE, ALLEN S.; GRACE, MARTHA; KNEIP, JULIE, "Peptide YY (PYY), a potent orexigenic agent," Brain Research, 1985, Vol. 341, Pages 200-203. Elsevier Science Publishers.	
		JOHN E. MORLEY AND JAMES F. FLOOD, An Investigation of Tolerance to the actions of Leptogenic and Anorexigenic Drugs in Mice, Life Sciences, 9/10/1987, Page(s) 22157-2165, Volume 41, Publisher: Pergamon Journals, Published in: Sepulveda, CA, US	
		KAZUHIKO TATEMOTO; NAKANO; MAKK; ANGWIN; MANN; SCHILLING; GO, Isolation and Primary Structure of Human Peptide YY, Biochemical and Biophysical Research Communications, 10/31/1988, Pages 713-717, Volume 157(2), Publisher: Academic Press, Inc., Published in: Los Angeles, California, US	
		BALASUBRAMANIAM, A.; SERVIN, A. L.; RIGEL, D. F.; ROUYER-FESSARD, C. R.; LABURTHER, M, Syntheses and receptor affinities of partial sequences of peptide YY (PYY) Peptide.Research., date- 1988, volume 1, No. 1, pages 32-35	
		JOHN E. MORLEY, An approach to the development of drugs for appetite disorders, Neuropsychobiology, Date 1989, Volume 21, issue 1, pages 22-30, Karger AG, Basel	
		EBERLEIN, G. A.; EYSSELEIN, V. E.; SCHAEFFER, M.; LAYER, P.; GRANDT, D.; GOEBELL, H.; NIEBEL, W.; DAVIS, M.; LEE, T. D.; SHIVELY, J. E.; REEVE, J. R., JR.; A new molecular form of PYY: structural characterization of human PYY(3-36) and PYY(1-36) Peptides, DATE- 1989, Vol 10, No. 4, pages 797-803, Pergamon Press, US	
		EYSSELEIN, V. E.; EBERLEIN, G. A.; GRANDT, D.; SCHAEFFER, M.; ZEHRES, B.; BEHN, U.; SCHAEFER, D.; GOEBELL, H.; DAVIS, M.; LEE, T. D.; SHIVELY, J. E.; MEYER, H. E.; REEVE, J. R., JR, Structural characterization of canine PYY, Peptides, 06/15/1989, Vol. 11 Pages 111-116, Pergamon Press, US	
		HIROYUKI MINAKATA, TAKASHI IWASHITA, Synthesis of analogues of peptide YY with modified N-terminal regions: relationships of amphiphilic secondary structures and activity in rat vas deferens, Journal: Biopolymers, Vol 29, 1/29/1990, pages 61-67, John Wiley & Sons, Inc.	
		RAMO, O. J.; BALASUBRAMANIAM, A.; SHERIFF, S.; ROGERS, D. H.; MCCULLOUGH, P. J.; BELL, R. H., JR., Neuropeptide Y and peptide YY stimulate the growth of exocrine pancreatic carcinoma cells, Neuropeptides, 1990, vol 15, pages 101-106, Longman Group UK	
		S.F. LEIBOWITZ, J.T. ALEXANDER, Analysis of Neuropeptide Y-Induced Feeding: Dissociation of Y1 and Y2 Receptor Effects on Natural Meal Patterns, Peptides, 7/25/1991, Pages 1251-1260, Volume 12, Publisher: Pergamon Press, Published in: New York NY, US	
		MARC LABURTHER, Peptide YY et neuropeptide Y dans L'intestin: disponibilite, effets biologiques et recepteurs epitheliaux, [translated title: Peptide YY and neuropeptide Y in the intestine: availability, biologic effects and epithelial receptors] Arch Int. Physiol Biochim Biophys, Reunion Complementary de Physiologie, Association des Physiologistes, Toulouse 26-27, 04/1991, France.	

Examiner Signature	Date Considered
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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	10/780,325
		Filing Date	02/17/2004
		First Named Inventor	Quay, Steven C.
		Art Unit	1614
		Examiner Name	
(Use as many sheets as necessary)		Attorney Docket Number	02-04CIP3
Sheet	5	of	7

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		INUI AKIO, MINORU OKITA, MASA HARU NAKAJIMA, TORU INOUE, NORIAKI SAKATANI, MANABU OYA, HIDEKI MORIOKA, YASUHIKO OKIMURA, KAZUO CHIHARA, AND SHIGEAKI BABA, Neuropeptide regulation of feeding in dogs, Neuropeptides and Food Intake, 1991, Pages R5888-R594, 0363-6119, The American Physiological Society	
		GRANDT, D.; TEYSSEN, S.; SCHIMICZEK, M.; REEVE, J. R., JR.; FETH, F.; RASCHER, W.; HIRCHE, H.; SINGER, M. V.; LAYER, P.; GOEBELL, H.; HO, F. J.; EYSSELEIN, V. E.: Novel generation of hormone receptor specificity by amino terminal processing of peptide YY, Biochemical and Biophysical Research Communications, 08/14/1992, volume 186, no. 3, pages 1299-1306, Academic Press, Inc.	
		S. OKADA, OHSHIMA, MORI, K. TATEMOTO, Peripherally not Centrally Administered Peptide YY(PYY) Decreases High Fat Diet Intake, 6/9/1993, Volume 520, Publisher: Endocrinology, Published in: Gunmo, Japan	
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		Application Number	10/780,325		
		Filing Date	02/17/2004		
		First Named Inventor	Quay, Steven C.		
		Art Unit	1614		
Sheet	6	of	7	Examiner Name	
				Attorney Docket Number	02-04CIP3

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		RACHEL L. BATTERHAM, MICHAEL A. COWLEY, CAROLINE S. SMALL, HERBERT HERZOG, MARK A. COHEN, CATHERINE L. DAKIN, ALISON M. WREN, AUDREY E. BRYNES, MALCOM J. LOW, MOHAMMAD A. GHATEI, ROGER D. CONE, STEPHEN R. BLOOM. "Gut hormone PYY3-36 physiologically inhibits food intake," Nature, 2002, Vol. 418, Pages 650-654, Nature Publishing Group.	
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